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IS 3767 (1966): Hook, Skin, Gillies Pattern [MHD 1:
Surgical Instruments]



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IS : 3767 - 1966

Indian Standard
SPECIFICATION FOR
HOOK, SKIN, GILLIES PATTERN

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SPECIFICATION FOR HOOK, SKIN, GILLIES PATTERN

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AMENDMENT NO. 1 JULY 1975

TO

IS:3767-1966 SPECIFICATION FOR HOOK,
SKIN, GILLIES PATTERN

Alterations

(Page 5, clauses 7.3 and 7.3.1) - Substitute the following for the existing clauses:

'7.3 Corrosion Resistance - The instrument shall satisfy the boiling and autoclaving test as mentioned in IS:7531-1975*.'

(Page 5, foot-note) - Insert the following foot-note at the bottom of the page:

'Method for boiling and autoclaving test for corrosion resistance of stainless steel surgical instruments.'

(CPDC 11)

Reprography Unit, ISI, New Delhi

Indian Standard

SPECIFICATION FOR HOOK, SKIN, GILLIES PATTERN

0. FOREWORD

0.1 This Indian Standard was adopted by the Indian Standards Institution on 25 October 1966, after the draft finalized by the Surgical Instruments Sectional Committee had been approved by the Consumer Products Division Council.

0.2 The formulation of Indian Standards on surgical instruments has been taken up on the recommendations of the Advisory Committee for Development of Surgical Instruments, Medical Equipment and Hospital Appliances of the Ministry of Industry, Government of India.

0.3 The size of skin hook covered in this standard is widely used. A finer hook is sometimes in demand, but by and large surgeons appear to prefer only one size, which is specified in this standard.

0.4 This Indian Standard is one of a series on surgical instruments. Other standards published so far in the series appear on page 6.

0.5 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test, shall be rounded off in accordance with IS : 2-1960*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

1.1 This standard covers the requirements of skin hooks used in plastic surgery and neurosurgery.

2. MATERIAL

2.1 The skin hook shall be made of stainless steel conforming to designation 30Cr13 of Schedule V of IS : 1570-1961†.

3. SHAPE AND DIMENSIONS

3.1 Skin hooks shall generally conform to the shape and dimensions given in Fig. 1.

*Rules for rounding off numerical values (*revised*).

†Schedules for wrought steels for general engineering purposes.

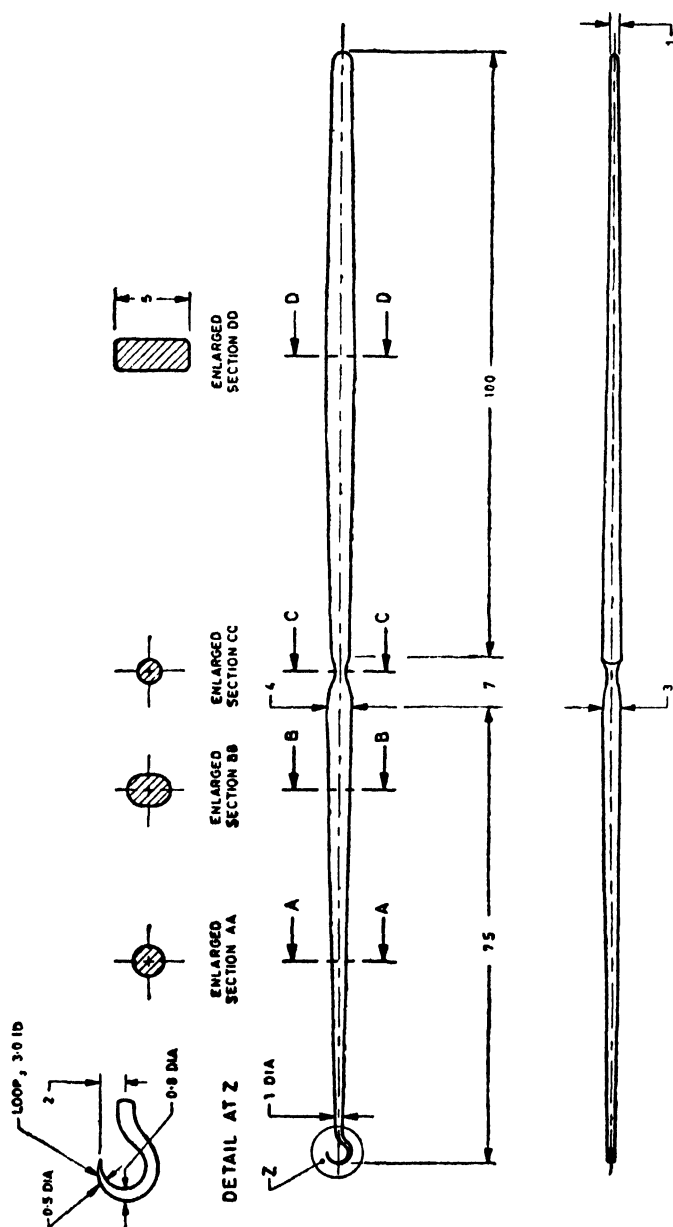


FIG. 1 HOOK, SKIN, GILLIES PATTERN

4. MANUFACTURE, WORKMANSHIP AND FINISH

4.1 The instrument shall be forged in one piece with its hook end well drawn and tapering uniformly. The hook shall be bent to form a uniform segment of a circle with its end at a distance of 2 mm from the centre line of the instrument. The instrument shall be well balanced and symmetrical on its centre axis. It shall be passivated and shall be finely and brightly polished, free from blemishes, burrs and sharp edges.

5. HEAT-TREATMENT

5.1 The hook shall be hardened and tempered to give a hardness of 430 to 490 HV.

6. MARKING

6.1 Each hook shall be legibly and indelibly marked with the manufacturer's name, initials or trade-mark and country of manufacture.

6.1.1 The hook may also be marked with the ISI Certification Mark.

NOTE — The use of the ISI Certification Mark is governed by the provisions of the Indian Standards Institution (Certification Marks) Act, and the Rules and Regulations made thereunder. Presence of this mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard, under a well-defined system of inspection, testing and quality control during production. This system which is devised and supervised by ISI and operated by the producer, has the further safeguard that the products as actually marketed are continuously checked by ISI for conformity to the standard. Details of conditions, under which a licence for the use of the ISI Certification Mark may be granted to manufacturers or processors, may be obtained from the Indian Standards Institution.

7. TESTS

7.1 View Under Magnification — The hook end shall be examined under a magnification of between $\times 5$ and $\times 10$. The sharp point shall be well defined and free from defects under magnification.

7.2 The handle shall be fixed in such a manner that the opening of the hook is upwards. A pull of 500 g shall be applied at the tip of the hook in a direction opposite to the curvature of the hook for two to three seconds. On the completion of the test the hook shall show no sign of damage.

7.3 Corrosion Resistance Test — The hook shall be tested for corrosion resistance as prescribed in 7.3.1.

7.3.1 Copper Sulphate Test — The sample shall be scrubbed with soap and warm water, rinsed in hot water, followed by a dip in ethyl alcohol

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(95 percent) and dried. The sample shall be completely immersed in copper sulphate solution at room temperature for 6 minutes and shall then be washed off with fresh water or with wet cotton wool. The copper sulphate solution shall be made up as follows:

Copper Sulphate ($\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$)	4.0 g
Sulphuric Acid (H_2SO_4) (sp gr 1.84)	10.0 g
Water (H_2O)	90.0 ml

There shall be no red stains or spots on the sample after the test, but the polished surface becoming dull may be permitted.

8. PACKING

8.1 Each hook shall be wrapped in wax paper or polyethylene film and packed in cardboard box or plastic case.

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